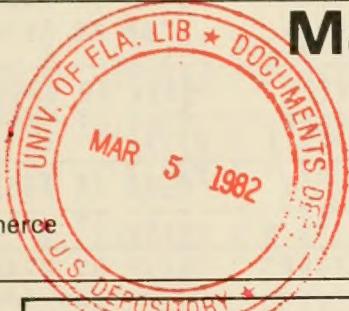




U.S. Department of Commerce
BUREAU OF THE CENSUS



Manufacturers' Shipments, Inventories, and Orders

DECEMBER 1981

M3-1(81)-12

For Wire Transmission 2:30 P.M. E.S.T. Tuesday, February 2, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in December showed a small increase from November, going up \$0.4 billion or 0.2 percent to \$160.3 billion, the Department of Commerce, Bureau of the Census reported today. This brought orders for the year to \$1,999 billion, a 7.4 percent increase over the 1980 volume of \$1,862 billion.

Shipments of manufactured goods declined for the sixth consecutive month, decreasing \$0.4 billion or 0.2 percent to \$161.6 billion. Shipments for all of 1981 were valued at \$1,999 billion, the same as new orders received for the year. Consequently, the value of manufacturers' unfilled orders at the end of 1981 showed no increase from the \$320 billion level reported at the end of 1980.

The book value of manufacturers' inventories declined in December by \$2.4 billion or 0.8 percent to \$277.2 billion. Inventories at the end of 1981 were valued at 7.4 percent higher than at the end of 1980.

The 0.2 percent increase in manufacturers' new orders in December resulted from increases in both the durable and nondurable goods categories. Durable goods new orders were up 0.3 percent in December to \$80.2 billion. This is smaller than the 1.6 percent increase recorded in the advance report published earlier. More complete reporting by machinery producers generated revision to both the November and December new orders previously published. November new orders for durable goods are now recorded as 2.8 percent above October rather than 1.8 percent.

Within the major industry categories, new orders for transportation equipment were up \$0.7 billion or 4.3 percent to \$16.1 billion, mostly due to new orders in the defense aircraft and parts category. New orders for primary metals declined for the 5th consecutive month. The December decrease was \$0.5 billion or 5.4 percent to \$9.5 billion. Machinery orders were relatively flat for the month, going up \$0.1 billion or 0.3 percent to \$29.4 billion.

The estimates for December are generally subject to greater revisions than other months. These revisions are attributable to corrections to early estimates by companies and to the lower than normal response rates, as reporting is delayed by year end closing of records. For example, based on data from January 1972 through December 1980, the average monthly revision to durable goods new orders was 1.1 percent; for January through November the rate was 1.0 percent, while the average December change was 1.6 percent.

New orders for the nondefense capital goods industries as a group were down in December \$1.0 billion or 4.2 percent, following increases in October and November of 7.4 percent and 13.4 percent, respectively. New orders for defense capital goods were up \$0.6 billion or 12.5 percent to \$5.5 billion. Defense orders for all of 1981 averaged \$5.2 billion per month as compared to the 1980 average of \$4.7 billion for a 10.6 percent average gain.

The decline in the value of manufacturers' shipments in December of \$0.4 billion resulted mostly from declines in the durable goods sector. The largest decline was in shipments by primary metals producers of \$0.8 billion or 7.5 percent to \$9.8 billion. Within the nondurable goods category, shipments valued at \$80.4 billion, showed no change from November.

The December decrease in the level of Manufacturers' unfilled orders of \$1.4 billion or 0.4 percent to \$320.1 billion reflected a large decline in the nondefense capital goods category, where the commercial aircraft and parts industry reported a sizable decline. The backlog of defense orders increased in December \$0.9 billion or 1.1 percent to \$80.4 billion.

Declines in the book value of manufacturers' inventories which resulted in an 0.8 percent decline for the month were widespread. Within the durable goods category nearly all major industry groups reported declines; within the nondurable goods category the largest decreases occurred in the food, and rubber and plastics products industries.

The pattern of change in inventories by stage of fabrication differed between the durable and nondurable categories. For durable goods most of the decrease was in raw materials and supplies, although work in process inventories also declined. The value of finished goods showed little change from November. For nondurables, finished goods inventories accounted for the decline.

The inventory to shipments ratio in December was 1.72, down from 1.73 in November. This is the first decline in the ratio since June when it was 1.57.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

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Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹					
		Monthly				Quarterly				Last 4 months				Monthly			Last 4 months a year ago		
		Dec. 1981 P	Nov. 1981 ^r	Oct. 1981	Sep. 1981	IV 1981 P	III 1981	II 1981	I 1981	Dec. 1981	Nov. 1981 ^r	Oct. 1981	Sep. 1981	Dec. 1980	Nov. 1980	Oct. 1980	Sep. 1980	1981 P	1980
	TOTALS																		Annual total
	All manufacturing industries.....	161,629	161,979	164,085	168,581	487,693	508,423	506,512	156,075	161,275	170,346	174,010	157,597	161,492	167,307	163,812	1,998,177	1,845,934	
	Manufacturing industries excluding transportation.....	144,344	145,176	146,887	149,625	436,407	451,069	447,982	139,581	143,842	151,518	155,724	140,945	143,236	147,664	146,076	1,778,591	1,654,546	
	Manufacturing industries with unfilled orders.....	85,799	86,346	86,556	89,183	258,701	268,852	266,373	83,738	85,774	90,073	92,943	82,996	84,366	87,466	86,200	1,054,970	967,077	
	Durable goods industries.....	81,275	81,641	82,583	86,179	245,499	260,339	261,761	78,408	80,945	86,763	88,536	79,978	82,459	86,823	83,673	1,019,942	936,030	
	Durable goods with unfilled orders.....	68,729	69,331	69,650	71,916	207,710	217,285	215,863	67,346	68,622	72,347	74,853	67,673	68,457	71,023	69,614	852,258	782,636	
	Nondurable goods industries.....	80,354	80,338	81,502	82,402	242,194	248,084	244,751	77,667	80,330	83,583	85,474	77,619	79,033	80,484	80,139	978,235	909,903	
	Nondurable goods with unfilled orders.....	17,070	17,015	16,906	17,267	50,991	51,567	50,510	16,392	17,152	17,726	18,090	15,323	15,909	16,443	16,586	202,711	184,441	
	MARKET CATEGORIES																		
	Home goods and apparel.....	11,729	11,793	11,971	12,217	35,493	37,409	37,089	10,273	12,435	13,476	13,658	10,116	12,256	13,278	12,706	146,082	135,305	
	Consumer staples.....	28,576	28,506	28,664	29,267	85,746	87,405	86,554	28,444	29,098	29,725	30,842	28,946	28,727	29,413	30,216	345,699	329,447	
	Equipment and defense products, except automotive.....	26,751	26,236	25,163	26,185	78,150	77,437	76,364	27,931	25,459	27,076	25,159	23,443	24,150	24,996	23,368	277,289	274,879	
	Automotive equipment.....	11,783	11,600	12,442	13,688	35,825	42,96	43,191	16,464	12,133	14,182	12,052	13,288	13,234	14,800	12,661	158,919	134,879	
	Construction materials, supplies, and intermediate products.....	11,429	11,564	11,925	12,310	34,918	37,353	38,564	10,560	11,343	12,662	13,100	11,854	12,558	13,440	12,878	149,960	143,458	
	Other materials, supplies, and intermediate products.....	71,361	72,280	73,920	74,914	217,561	226,523	224,749	68,483	70,807	74,816	76,482	70,235	71,274	72,226	70,355	891,142	825,553	
	SUPPLEMENTARY SERIES ²																		
	Household durable goods industries.....	5,148	5,128	5,194	5,360	15,470	16,146	16,241	4,793	5,308	5,799	6,055	4,626	5,186	5,749	5,574	63,553	58,493	
	Capital goods industries.....	29,028	29,335	27,871	28,842	85,834	85,974	84,469	30,328	28,444	28,893	29,853	27,214	26,441	26,887	27,550	388,193	308,368	
	Nondurable.....	24,456	24,433	23,534	24,608	72,423	73,112	72,453	25,527	24,007	23,824	25,417	24,026	22,441	23,189	23,709	288,297	267,210	
	Defense.....	4,572	4,502	4,337	4,214	13,411	12,862	12,017	4,801	4,437	4,389	4,436	3,873	3,703	3,698	3,841	49,893	41,158	
	INDUSTRY GROUPS AND INDUSTRIES																		
	Durable goods industries:																		
32	Stones, clay, and glass products.....	3,791	3,860	3,845	4,024	11,496	12,278	12,680	3,373	3,824	4,164	4,335	3,665	3,977	4,259	4,221	49,024	45,518	
322	Glass containers.....	4,463	4,694	4,92	4,888	1,449	1,527	4,24	502	518	415	405	418	425	471	5,926	4,923		
33	Primary metals.....	9,834	10,635	11,065	11,609	31,534	35,561	35,325	9,117	10,114	11,191	11,724	10,981	11,446	11,088	137,997	134,051		
333-9	Blast furnaces, steel mills.....	5,169	5,158	5,710	5,923	16,397	18,268	18,482	4,802	5,154	5,698	5,965	5,639	5,536	5,430	5,055	70,956	62,481	
34	Nonferrous and other primary metals.....	3,841	4,152	4,368	4,631	12,361	14,018	13,454	3,579	3,999	4,442	4,695	4,336	4,519	4,825	4,984	54,050	58,485	
341	Fabricated metal products.....	9,622	9,494	9,989	10,286	29,105	31,265	31,644	9,020	9,297	10,497	10,671	10,010	10,232	10,829	20,286	123,287	116,866	
	Metal cans, barrels, and drums.....	845	812	797	778	2,454	2,441	2,488	674	671	769	907	737	695	822	967	9,969	10,199	
35	Machinery, except electrical.....	17,127	17,446	16,924	17,353	51,497	51,669	50,914	17,667	16,675	17,136	17,814	16,545	15,349	16,243	16,316	204,552	182,837	
351	Engines and turbines.....	1,380	1,492	1,393	1,429	4,265	4,404	4,101	1,396	1,346	1,491	1,491	1,154	1,181	1,137	1,157	16,523	13,839	
352	Farm machinery and equipment.....	1,182	1,151	1,184	1,182	3,180	3,527	3,817	3,800	3,975	3,266	3,186	1,011	1,001	1,167	1,167	14,769	13,699	
353	Construction, mining, and material-handling equipment.....	3,563	3,588	3,375	3,037	10,534	10,166	9,856	3,374	3,333	3,420	3,459	2,917	2,729	3,004	2,973	40,126	35,287	
354	Metalworking machinery.....	846	911	1,001	1,037	2,758	2,989	2,910	889	885	1,000	1,077	1,045	972	991	981	11,610	11,185	
355	General industrial machinery.....	1,462	1,480	1,474	1,422	4,416	4,383	4,482	1,453	1,409	1,500	1,452	1,376	1,453	1,453	1,453	17,151	15,987	

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted												
		Monthly				Quarterly				Last 4 months				Monthly				Last 4 months a year ago				Monthly				
		Dec. 1981 P	Nov. 1981 R	Oct. 1981	Sep. 1981	IV 1981 P	III 1981	II 1981	I 1981	Dec. 1981 P	Nov. 1981 R	Oct. 1981	Sep. 1981	Dec. 1980	Sep. 1981	Nov. 1980	Oct. 1980	Sep. 1980	Dec. 1980	Sep. 1980	Nov. 1980	Oct. 1980	Sep. 1980			
	INDUSTRY GROUPS AND INDUSTRIES--Continued																									
36	Durable goods and industries--Continued	11,587	11,433	11,262	11,667	34,282	35,062	34,649	11,422	11,583	11,839	12,339	10,596	11,201	11,459	11,169	136,993	125,907								
361.2	Electrical machinery, equipment and distribution	1,993	1,868	1,941	5,770	5,901	5,738	1,887	1,873	1,897	1,988	1,821	1,878	1,871	1,878	1,878	22,801	21,869								
363	Household appliances	1,046	1,058	1,020	1,113	3,124	3,291	3,459	961	992	1,081	1,191	999	1,066	1,187	1,141	13,264	12,462								
365	Radio and TV	882	802	838	965	2,522	2,765	2,859	905	961	1,002	1,115	800	1,019	993	940	10,814	9,002								
366	Communication equipment	3,241	3,245	3,184	9,728	9,625	9,350	3,213	3,284	3,239	3,239	2,895	2,862	2,895	2,944	3,171	37,931	33,570								
367	Electronic components	2,506	2,357	2,243	2,385	7,106	7,124	6,930	2,376	2,667	2,348	2,514	2,224	2,376	2,419	2,318	28,038	26,997								
37	Transportation equipment	17,285	16,803	17,198	18,956	51,286	57,354	58,531	17,433	18,828	18,286	16,653	18,256	19,643	17,736	219,586	191,187									
371	Motor vehicles and parts	10,074	10,018	11,971	30,778	36,731	37,622	8,932	10,670	12,299	11,039	9,860	12,908	11,594	12,908	10,796	137,457	114,309								
372.6	Aircraft, missiles, and parts	5,171	4,789	4,550	4,938	14,510	14,218	14,459	5,422	4,826	4,475	5,177	4,678	4,617	4,843	4,617	56,945	51,007								
3731	Shipbuilding and military tank vehicles	1,136	1,216	1,095	1,151	3,447	3,616	3,520	1,275	1,214	1,167	1,172	1,129	1,018	1,016	1,084	13,943	12,606								
3795	Instruments and related products	4,235	4,146	4,241	4,299	12,622	12,812	12,495	4,228	4,251	4,395	4,387	4,059	4,104	4,124	4,166	50,224	45,993								
38	Scientific and engineering products	2,532	2,455	2,533	7,538	7,508	7,208	4,245	4,259	4,264	4,264	2,384	2,378	2,378	2,378	2,378	29,404	26,570								
381-4	Photographic goods	1,439	1,429	1,429	1,486	4,270	4,442	4,367	1,460	1,509	1,511	1,603	1,422	1,522	1,497	1,522	17,352	16,273								
24	All other durable goods	7,794	7,824	8,059	7,985	23,677	24,338	25,524	7,087	7,768	8,713	8,780	7,471	8,150	8,820	8,691	98,462	93,464								
39	Industries	7,794	7,824	8,059	7,985	23,677	24,338	25,524	7,087	7,768	8,713	8,780	7,471	8,150	8,820	8,691	98,462	93,464								
	Nondurable Goods Industries:																									
20	Food and kindred products	21,557	21,493	22,077	22,421	65,127	67,512	67,307	21,603	21,900	22,763	23,316	22,574	22,677	23,002	266,371	254,745									
201	Meat products	5,462	5,506	5,582	5,856	16,550	17,322	16,070	5,527	5,527	5,527	5,527	5,400	5,309	5,186	5,186	65,609	58,798								
208	Beverages	2,947	2,779	2,898	2,927	8,624	8,948	9,124	2,664	2,824	2,824	2,824	2,980	3,055	2,891	3,131	35,353	33,985								
207	Fats and oils	1,790	1,665	1,757	1,757	5,201	5,375	5,189	1,765	1,717	1,772	1,791	1,752	1,830	1,752	1,666	1,666	20,982	19,177							
203-6,9	All other foods	8,301	8,431	8,752	8,806	25,504	26,509	27,717	8,633	8,680	9,023	9,608	9,773	9,602	10,538	10,242	10,077	108,323	12,466							
21	Tobacco products	1,122	1,173	1,211	3,464	3,592	3,592	3,283	1,217	1,199	1,164	1,190	1,159	1,091	1,167	1,028	13,622									
22	Textile mill products	3,950	4,061	4,427	4,427	13,337	11,445	19,354	13,377	13,377	13,377	13,377	4,001	4,320	4,713	3,689	4,006	4,075	5,733	46,167						
26	Paper and allied products	6,533	6,533	6,489	6,537	8,538	8,674	8,480	2,906	2,823	3,042	2,823	6,347	6,269	5,980	5,855	6,347	7,760	71,660							
261-3	Pulp, paper, etc.	2,809	2,809	1,675	1,675	4,932	4,932	4,932	1,671	1,671	1,671	1,671	2,851	2,877	2,877	2,877	2,752	2,752	34,171	31,932						
265	Paperboard containers	1,667	1,667	1,590	1,590	4,932	4,932	4,932	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	17,880							
264	All other paper products	2,096	1,932	2,076	2,076	1,824	1,824	1,824	1,824	1,824	1,824	1,824	1,866	1,866	1,866	1,866	1,866	1,866	1,866	1,866	1,866	1,866	1,866	1,866		
28	Chemicals and allied products	15,492	15,053	15,489	45,873	46,406	46,406	46,406	14,503	14,477	14,477	14,477	14,078	14,078	14,078	14,078	14,331	14,331	14,331	14,331	14,331	14,331	14,331	14,331		
281.6	Industrial chemicals, except pigments	5,261	5,128	5,384	5,245	15,634	16,135	16,135	5,034	4,785	5,003	5,303	5,278	5,278	5,278	5,278	4,885	5,124	4,885	4,885	4,885	4,885	4,885	4,885		
283,4	Drugs, soap, and toiletries	3,903	3,903	3,934	3,707	16,049	16,049	16,049	11,382	10,998	13,791	13,791	13,791	13,791	13,791	13,791	13,791	13,791	13,791	13,791	13,791	13,791	13,791			
29	Petroleum and coal products	15,495	15,830	16,479	16,479	47,744	48,313	48,313	16,026	15,738	15,738	15,738	16,026	16,026	16,026	16,026	15,653	15,653	15,653	15,653	15,653	15,653	15,653	15,653		
30	Rubber and plastics products, n.e.c.	3,789	3,642	3,945	3,945	11,376	12,056	11,886	3,413	3,525	4,152	4,087	3,530	4,027	4,027	4,027	4,344	4,160	4,160	4,160	4,160	4,160	4,160	4,160		
23	All other nondurable goods	12,367	12,405	12,299	12,297	37,071	37,392	36,304	11,411	13,103	13,103	13,103	13,567	13,314	13,314	13,314	12,187	12,713	12,713	12,713	12,713	12,713	12,713	12,713		
31	Industries	12,367	12,405	12,299	12,297	37,071	37,392	36,304	11,411	13,103	13,103	13,103	13,567	13,314	13,314	13,314	12,187	12,713	12,713	12,713	12,713	12,713	12,713	12,713		

Preliminary.

1 Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

2 The supplementary series are regroupings of the separate industry categories as follows: Household durable goods industries--household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--based on separate reports from large defense contractors in the following industries: Ordnance; communication equipment; aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, "Shipments to Federal Government Agencies" (formerly "Shipments to Defense-Oriented Industries"), for the specified industries.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹					
		Monthly				Quarterly				Last 4 months				Monthly		Last 4 months a year ago		Annual total	
		Dec. 1981 ^p	Nov. 1981 ^r	Oct. 1981	Sept. 1981	IV 1981 ^p	III 1981	II 1981	IV 1981 ^p	Dec. 1981 ^p	Nov. 1981 ^r	Oct. 1981	Sept. 1981	Dec. 1980	Nov. 1980	Oct. 1980	Sept. 1980	1981 ^p	1980
TOTALS																			
All manufacturing industries.....	160,277	159,923	159,005	168,444	47,9,205	511,118	508,837	155,590	158,259	168,150	172,733	161,700	160,864	170,629	165,215	1,998,672	1,860,706		
Manufacturing industries excluding transportation.....	144,187	144,494	143,225	149,817	431,906	451,207	450,989	139,868	141,759	147,987	153,449	144,019	143,471	149,432	144,855	1,777,889	1,658,030		
Manufacturing industries with unfilled orders.....	84,447	84,290	81,476	89,046	250,213	271,547	268,697	83,253	82,758	87,877	91,666	87,098	83,738	90,788	87,603	1,055,464	981,849		
Durable goods industries with unfilled orders.....	80,184	79,956	77,804	86,278	237,944	263,324	263,647	78,148	78,472	86,898	87,507	83,964	82,107	90,114	86,947	1,021,131	951,169		
Durable goods with unfilled orders.....	67,638	67,646	72,015	200,155	220,270	217,748	67,086	66,149	70,482	73,824	71,658	68,105	74,314	70,888	853,447	797,775			
Nondurable goods industries.....	80,093	79,967	81,201	82,166	241,261	247,794	245,190	77,442	79,787	83,252	85,226	77,736	78,757	80,515	80,268	977,540	909,536		
Industries with unfilled orders.....	16,809	16,644	16,605	17,031	50,058	51,277	50,949	16,167	16,609	17,395	17,842	15,440	15,633	16,715	20,015	203,015	184,073		
Industries without unfilled orders.....	63,284	63,323	64,596	65,135	191,203	196,517	194,241	61,275	63,178	65,857	67,384	62,296	63,124	64,041	63,553	775,522	725,462		
MARKET CATEGORIES																			
Home goods and apparel.....	11,768	11,556	11,578	12,221	34,902	37,402	37,187	10,153	12,018	12,793	13,463	10,044	12,000	13,041	12,550	146,455	134,892		
Consumer staples.....	28,528	28,547	28,655	29,282	83,730	81,480	86,647	28,382	29,111	29,656	30,893	28,946	28,697	29,389	30,239	345,867	329,505		
Equipment and defense products.....	25,382	26,956	23,225	25,302	75,563	79,749	75,996	27,021	25,318	26,430	27,030	28,824	22,722	26,360	27,411	309,898	291,959		
except automotive.....	11,943	11,171	12,490	13,408	35,604	42,166	43,163	10,526	11,526	11,210	12,626	11,326	13,460	14,988	12,825	158,344	133,322		
Automotive equipment.....	11,050	11,698	11,571	12,273	34,319	37,117	38,764	10,207	11,285	12,299	12,817	11,875	12,391	13,573	12,555	149,175	142,790		
Construction materials, supplies, and intermediate products.....	71,606	69,995	71,486	75,958	213,087	227,204	227,079	69,301	68,765	72,722	75,904	70,685	71,594	73,278	69,625	888,722	828,235		
SUPPLEMENTARY SERIES²																			
Household durable goods industries.....	5,199	4,873	4,810	5,388	14,882	16,150	16,347	4,707	4,889	5,117	5,894	4,581	4,909	5,508	5,416	63,667	58,182		
Capital goods industries.....	28,263	28,663	24,826	29,580	81,732	87,747	86,133	29,482	28,089	29,960	31,002	25,593	29,324	34,455	34,936	326,752	320,571		
Nondefense.....	22,807	23,807	20,996	23,026	67,616	71,932	71,818	23,297	22,285	22,905	23,705	24,899	21,742	23,492	23,176	281,875	270,571		
Defense.....	5,456	4,850	3,830	6,554	14,136	17,755	14,315	6,185	5,804	6,055	7,297	5,641	4,211	5,832	6,239	62,056	56,181		
INDUSTRY GROUPS AND INDUSTRIES																			
Durable goods industries:																			
Stone, clay, and glass.....	3,773	3,924	3,899	3,897	11,596	12,110	12,686	3,348	3,816	4,171	4,157	3,618	3,928	4,252	4,126	48,798	45,221		
Primary metals.....	9,492	10,032	10,170	11,422	35,490	39,694	34,964	9,975	9,975	10,538	12,094	11,709	12,712	13,371	13,520	134,057	134,057		
Blast furnaces, steel mills.....	5,002	5,124	5,107	6,022	15,232	18,540	18,453	5,448	4,792	5,973	5,266	6,283	6,373	5,334	6,373	69,568	63,212		
Nonferrous and other primary metal products.....	3,743	4,036	3,944	4,348	11,723	13,656	13,322	3,822	3,623	4,042	4,248	4,808	5,182	5,302	5,182	52,507	58,694		
Fabricated metal products.....	9,399	9,262	9,282	10,034	27,943	30,739	31,877	8,831	8,909	9,707	10,371	10,232	10,105	10,867	9,710	121,812	115,993		
Machinery, except electrical.....	17,420	17,472	15,984	17,498	51,532	50,876	51,889	17,593	16,25	17,264	17,915	15,993	16,211	16,059	16,211	204,749	182,782		
Engines and turbines.....	1,276	1,335	1,390	1,538	4,001	4,343	4,335	1,384	1,058	1,602	1,650	1,160	1,177	1,404	1,320	16,763	13,329		
Construction, mining, and material-handling equipment.....	3,421	3,613	3,071	3,338	10,105	10,520	11,085	3,476	3,193	3,247	3,310	3,358	2,743	3,311	3,108	42,283	35,673		
Metalworking machinery.....	634	645	765	786	2,044	2,267	2,333	623	764	1,300	1,354	1,300	1,279	933	866	909	9,348	11,028	
General industrial machinery.	1,435	1,350	1,551	1,317												1,311	1,369	1,230	

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted			
		Monthly			Quarterly			Last 4 months			Monthly			Last 4 months a year ago		Annual total	
		Dec. 1981 P	Nov. 1981 P	Sept. 1981	IV 1981 P	III 1981	II 1981	Dec. 1981 P	Nov. 1981 P	Oct. 1981	Sept. 1981	Oct. 1980	Nov. 1980	Oct. 1980	Sept. 1980	1981 P	1980
INDUSTRY GROUPS AND INDUSTRIES--Continued																	
361,2	Durable Goods Industries--Continued	12,021	11,873	10,370	12,487	34,264	36,462	36,281	11,461	11,589	11,267	12,818	10,573	11,426	12,135	10,815	141,187
361,2	Electrical machinery.....	2,094	1,989	1,494	1,901	5,577	5,937	5,770	1,916	1,889	1,548	1,820	1,739	1,717	1,975	23,061	22,221
363	Electrical transmission and distribution equipment and industrial apparatus.....	1,056	1,072	946	1,114	3,074	3,249	3,477	976	969	1,163	995	1,031	1,125	1,197	13,201	12,518
365	Household appliances.....	1,071	766	608	1,173	2,445	3,083	2,754	1,048	836	1,293	860	821	967	913	11,055	8,973
366	Radio and TV.....	3,253	3,659	2,964	4,045	9,876	11,105	10,704	3,303	3,431	3,579	3,985	3,228	3,412	3,796	2,918	41,438
367	Communication equipment.....	2,665	2,319	2,323	2,194	7,307	6,959	7,405	2,336	2,305	2,198	2,236	1,841	2,409	2,207	2,106	28,243
37	Transportation equipment.....	16,090	15,429	15,780	18,627	47,299	59,911	57,848	15,722	16,500	20,163	19,284	17,681	17,393	21,197	20,360	220,783
372,6	Aircraft, missiles, and parts.....	4,390	3,966	3,432	5,617	11,788	16,839	13,663	5,259	4,392	5,854	6,510	5,240	3,969	5,891	5,857	59,087
3731	Shipbuilding and military tank vehicles.....	693	1,188	764	595	2,645	3,966	657	1,185	1,144	1,229	1,708	812	1,370	2,656	14,383	15,408
3795	Instruments and related products.....	4,109	4,378	4,233	4,245	12,720	12,822	12,540	4,202	4,336	4,362	4,486	4,306	3,971	4,067	4,120	50,401
38	All other durable goods industries.....	7,880	7,586	8,086	8,048	23,532	24,238	25,563	7,016	7,512	8,462	8,569	7,544	8,082	8,673	8,386	98,866
39																	93,314

Preliminary.

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplemental series are regroupings of the separate industry categories as follows:
 Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops); electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance; Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the MA-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"), for the specified industries.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹					
		Monthly				Quarterly				Last 4 months				Last 4 months a year ago					
		Dec. 1981 ^b	Nov. 1981 ^b	Oct. 1981	Sent. 1981	II 1981	1981	IV 1980	III 1980	II 1980	Dec. 1981 ^b	Nov. 1981 ^b	Oct. 1981	Sept. 1981	Dec. 1980	Nov. 1980	Oct. 1980	Sept. 1980	
TOTALS																			
All manufacturing industries.....	320,123	321,778	323,538	328,613	325,918	323,602	319,779	315,027	306,494	318,146	318,635	321,651	323,853	317,661	313,558	314,186	310,864		
Manufacturing industries excluding transportation.....	206,037	206,195	206,881	210,540	210,403	207,405	206,686	200,514	197,955	202,628	202,944	204,428	207,983	203,339	200,265	200,030	198,262		
Durable goods industries.....	309,900	310,995	312,681	317,460	314,477	312,598	308,815	304,133	295,750	308,171	308,436	310,908	312,779	306,995	303,009	303,361	300,070		
Nondurable goods industries.....	10,223	10,483	10,837	11,153	11,441	11,005	10,913	10,895	10,744	9,975	10,199	10,743	11,074	10,666	10,549	10,825	10,794		
MARKET CATEGORIES																			
Home goods and apparel.....	4,310	4,320	4,517	4,921	4,854	4,664	3,988	4,085	4,215	3,929	4,111	4,516	5,229	3,688	3,760	4,046	4,307		
Consumer staples.....	190,299	191,510	191,219	193,108	190,926	191,324	186,876	183,272	177,896	190,291	191,082	191,593	190,622	186,838	183,134	183,629	181,231		
Equipment and defense products.....	17,151	17,017	17,371	17,607	17,409	17,587	17,399	17,749	16,462	16,794	16,853	17,237	17,248	17,227	17,394	17,261			
Automotive equipment.....	108,743	108,497	110,785	113,213	112,531	110,206	111,277	110,270	106,635	107,464	106,648	108,689	110,785	109,887	109,437	109,117	108,065		
SUPPLEMENTARY SERIES²																			
Household durable goods industries.....	3,143	3,093	3,348	3,735	3,732	3,628	2,954	3,084	3,220	2,816	2,904	3,323	4,006	2,707	2,752	3,029	3,270		
Capital goods industries.....	221,676	222,442	222,116	225,758	221,984	220,323	216,028	214,413	205,664	221,852	222,701	223,056	222,313	216,111	213,470	213,958	211,521		
Nondefense.....	141,120	142,969	143,389	146,126	147,288	147,924	147,673	147,300	146,477	140,046	142,280	144,001	144,925	146,471	145,598	146,594	146,291		
Defense.....	80,356	79,473	79,127	79,632	72,398	68,355	67,113	60,207	81,806	80,421	79,055	77,388	69,640	67,872	67,364	65,230			
INDUSTRY GROUPS AND INDUSTRIES																			
Durable goods industries:	32	2,222	2,141	2,127	2,124	2,292	2,288	2,460	2,426	2,531	2,068	2,101	2,093	2,095	2,341	2,390	2,397		
Stone, clay, and glass.....	26,683	27,024	27,627	28,521	28,595	28,955	28,028	28,010	25,487	25,974	25,117	25,346	26,988	26,546	27,342	27,823	26,557		
Primary metals.....	16,004	16,171	16,565	17,188	16,897	16,926	17,439	15,742	13,258	15,508	14,862	15,949	16,898	16,310	15,583	14,640			
Blast furnaces, steel mills.....	331	331-6,9	331	331	331	331	331	331	331	331	331	331	331	331	331	331	331		
Nonferrous and other primary metal products.....	7,424	7,522	7,638	8,062	8,425	8,557	9,008	8,476	8,219	7,231	6,988	7,363	7,764	8,775	8,302	8,519	8,162		
Fabricated metal products.....	28,694	28,917	29,150	29,856	30,362	30,134	30,189	29,800	30,749	28,493	28,682	29,072	29,861	29,669	29,746	29,873	29,835		
Machinery, except electrical.....	74,818	74,526	74,499	75,440	75,578	74,402	74,396	72,650	71,914	73,916	74,139	73,515	72,144	72,000	72,032	72,032	72,032		
Engines and turbines.....	18,149	18,411	18,413	18,474	18,241	17,905	17,864	17,825	18,306	18,317	18,658	18,403	18,066	18,075	17,352	17,352			
351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351			
Construction, mining, and material-handling equipment.....	10,915	11,057	11,031	10,989	9,760	8,765	8,141	8,062	10,904	10,802	10,943	11,116	8,748	8,307	8,233	7,986			
Metalworking machinery.....	5,022	5,234	5,500	5,736	6,439	7,035	7,92	7,661	7,986	4,987	5,255	5,516	5,753	7,248	7,360	7,559	7,684		
General industrial machinery.....	6,588	6,745	6,615	6,669	6,547	6,304	6,177	6,287	6,615	6,496	6,596	6,705	6,649	6,649	6,649	6,649	6,649		

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry group	Seasonally adjusted												Not seasonally adjusted					
		Monthly			Quarterly			Last 4 months			Monthly			Last 4 months a year ago					
		Dec. 1981 ^p	Nov. 1981 ^r	Oct. 1981	Sept. 1981	II 1981	I 1981	IV 1980	III 1980	II 1980	Dec. 1981 ^p	Nov. 1981 ^r	Sept. 1981	Dec. 1980	Nov. 1980	Oct. 1980	Sept. 1980		
INDUSTRY GROUP AND INDUSTRIES--Continued																			
36	Durable goods industries--Continued	51,506	51,072	50,634	51,526	50,124	48,494	47,225	45,819	45,341	50,668	50,630	50,624	51,197	46,477	46,500	46,275	45,599	
361,2	Electrical machinery, equipment and apparatus--Continued	8,237	8,141	8,055	8,429	8,392	8,361	7,967	7,905	8,027	8,103	8,074	8,059	8,409	7,844	7,845	7,985	7,888	
363	Household appliances--Continued	339	316	433	411	415	411	378	482	346	422	416	552	274	389	350	354	451	
365	Radio and TV--Continued	619	431	697	697	697	697	28,823	27,562	26,345	25,427	23,863	22,802	28,786	409	534	311	449	
366	Communication equipment--Continued	28,970	28,958	28,543	28,823	28,823	28,823	12,207	11,733	12,019	12,135	12,019	12,019	28,833	28,616	28,276	25,280	24,914	
367	Electronic components--Continued	12,243	12,084	12,122	12,042	12,042	12,042	11,073	11,043	11,043	11,043	11,043	11,043	11,964	12,114	11,659	12,441	12,463	
37	Transportation equipment--Continued	114,086	115,283	116,657	118,073	115,515	116,198	113,043	114,513	114,513	108,940	115,518	116,291	117,223	115,890	114,222	113,293	114,156	112,602
372,6	Aircraft, missiles, and parts--Continued	90,405	91,187	92,010	93,126	90,504	91,299	88,371	90,466	85,924	91,838	92,012	92,446	91,068	89,668	89,179	89,888	88,614	
373	Shipbuilding and military tank vehicles--Continued	16,501	16,394	16,972	17,303	16,933	16,478	16,087	15,421	13,490	16,510	17,129	17,157	17,180	16,068	15,489	15,695	15,341	
375	Instruments and related products--Continued	7,164	7,290	7,059	7,057	7,056	7,012	6,987	6,863	6,944	7,118	7,145	7,058	7,091	6,942	6,695	6,828	6,885	
25	All other durable goods industries--Continued	4,727	4,642	4,878	4,853	4,955	4,915	4,267	4,050	4,244	4,416	4,488	4,745	4,997	4,021	3,948	4,016	4,163	

^pPreliminary.

^rRevised.
1Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

2The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondurable goods industries--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), the nondense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the MA-172, "Shipments to Federal Government Agencies" (formerly "Shipments of defense-oriented industries") for the specified industries.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted					
		Monthly				Quarterly				Last 4 months				Monthly					
		Dec. 1981 ^b	Nov. 1981 ^c	Oct. 1981	Sept. 1981	II 1981	IV 1981	III 1980	II 1980	Dec. 1981 ^b	Nov. 1981 ^c	Oct. 1981	Sept. 1981	Dec. 1980	Nov. 1980	Oct. 1980	Sept. 1980		
	TOTALS																		
	All manufacturing industries.....	277,172	279,544	278,440	276,616	269,709	266,524	257,980	256,835	256,421	275,538	277,405	276,040	273,900	256,584	255,399	254,257	254,207	
	Manufacturing industries excluding transportation.....	237,157	239,294	238,176	237,192	231,081	228,413	221,170	221,393	221,992	236,243	235,827	234,522	220,480	219,434	218,438	218,769		
	Manufacturing industries with unfilled orders.....	191,334	192,625	191,584	189,850	183,036	180,275	174,756	173,231	173,188	189,013	190,268	189,219	187,924	172,647	171,577	170,901	171,511	
	Durable goods industries.....	185,789	187,275	186,718	185,140	178,676	176,229	171,603	170,163	169,769	183,712	185,149	184,310	183,091	169,616	168,354	167,617	168,308	
	Durable goods with unfilled orders.....	170,223	171,569	170,673	169,027	162,821	160,227	155,430	153,986	153,669	168,392	169,779	168,818	167,397	153,761	152,771	152,138	152,535	
	Nondurable goods industries.....	91,383	92,269	91,722	91,476	91,033	90,295	86,377	86,672	86,652	91,826	92,256	91,730	90,809	86,967	87,045	86,640	85,899	
	Nondurable goods with unfilled orders.....	21,111	21,056	20,911	20,823	20,215	20,047	19,326	19,245	19,520	20,621	20,489	20,401	20,527	18,887	18,806	18,763	18,976	
	MARKET CATEGORIES																		
	Home goods and apparel.....	22,887	23,064	22,570	21,982	21,410	21,201	20,663	20,395	20,706	22,022	21,814	21,762	21,778	19,895	19,451	19,772	20,215	
	Consumer staples.....	32,848	33,020	33,184	33,142	32,658	32,880	32,201	31,988	31,283	33,358	33,991	34,522	33,544	32,732	33,616	33,327	32,389	
	Equipment and defense products.....	76,674	76,570	76,180	75,148	73,240	71,400	69,908	69,288	67,787	75,806	76,193	75,479	74,376	69,127	69,244	68,857	68,543	
	except automotive.....	11,478	11,570	11,866	11,714	11,530	11,775	11,872	11,589	12,267	11,850	11,743	11,743	11,850	11,604	11,461	11,457	11,685	
	Automotive equipment.....	22,429	22,901	22,795	23,006	22,393	21,602	21,266	20,809	20,999	22,067	22,109	22,262	22,516	20,927	20,278	20,210	20,387	
	Construction materials, supplies, and intermediate products.....	110,856	112,419	111,845	111,624	108,478	107,656	102,070	102,767	103,380	111,399	111,555	110,465	109,886	102,299	101,349	100,634	100,988	
	SUPPLEMENTARY SERIES ²																		
	Household durable goods industries.....	10,895	11,037	10,981	10,719	10,250	10,236	9,992	9,980	10,198	10,609	10,627	10,639	10,566	9,730	9,584	9,662	9,845	
	Capital goods industries.....	86,513	86,033	85,074	82,376	80,436	78,245	77,469	75,420	85,277	86,091	85,371	84,245	77,180	77,520	77,119	76,705		
	Nondurable.....	73,020	72,972	72,985	72,055	69,676	68,473	67,224	67,021	65,572	72,666	72,400	71,321	66,381	66,842	66,501	66,330	66,330	
	Defense.....	13,468	13,541	13,019	12,700	11,984	11,021	10,447	9,749	13,214	13,425	12,971	12,924	10,739	10,728	10,618	10,375	10,375	
	INDUSTRY GROUPS AND INDUSTRIES																		
	Durable goods industries:																		
	Stone, clay, and glass products.....	6,924	6,953	6,923	7,037	6,599	6,398	6,145	6,014	6,189	6,775	6,658	6,613	6,792	6,020	5,807	5,807		
	Glass containers.....	661	647	644	595	608	593	584	611	633	640	647	627	569	587	577	569		
	Primary metals.....	25,184	25,361	25,268	25,087	23,334	23,640	21,976	22,022	22,555	25,632	25,301	24,971	24,709	22,390	21,880	21,665	21,699	
	Blast furnaces, steel mills.....	13,083	13,129	13,148	13,120	12,169	12,722	11,844	12,152	12,122	13,619	13,260	13,029	13,029	12,000	11,937	12,067		
	Nonferrous and other primary metals.....	10,625	10,727	10,617	10,511	9,819	9,563	8,802	8,564	8,484	10,582	10,598	10,415	10,270	8,768	8,636	8,464	8,367	
	Fabricated metal products.....	20,171	20,733	20,598	20,440	19,973	19,812	19,773	19,395	20,159	20,159	20,147	20,227	19,394	18,957	18,753	18,753		
	Metal cans, barrels, and drums.....	1,404	1,510	1,582	1,578	1,571	1,637	1,744	1,578	1,732	1,247	1,291	1,346	1,362	1,548	1,402	1,376	1,365	
	Machinery, except electrical.....	42,540	42,502	42,282	42,017	40,342	39,618	39,189	39,726	39,514	42,182	41,681	41,452	38,884	38,972	38,663	39,166		
	Engines and turbines.....	2,540	2,585	2,622	2,423	2,423	2,474	2,457	2,522	2,527	2,593	2,583	2,546	2,465	2,501	2,396	2,421		
	Farm machinery and equipment.....	2,802	2,767	2,652	2,712	2,749	2,801	2,774	3,148	2,802	2,599	2,464	2,577	2,737	2,800	2,974	2,800		
	Construction, mining, and material-handling equipment.....	9,798	9,623	9,522	9,213	8,789	8,469	8,446	8,466	8,766	9,294	9,546	9,066	8,421	8,502	8,409	8,512		
	Metalworking machinery.....	2,686	2,645	2,612	2,749	2,636	2,624	2,760	2,855	2,624	2,594	2,642	2,724	2,817	2,816	2,817	2,816		
	General industrial machinery.....	3,903	3,984	4,008	3,872	3,753	3,561	3,603	3,637	3,872	3,936	3,872	3,924	3,523	3,523	3,523	3,523		

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹														
		Monthly				Quarterly				Last 4 months				Last 4 months a year ago				Monthly										
		Dec. 1981 ^b	Nov. 1981 ^b	Oct. 1981	Sept. 1981	II 1981	III 1981	IV 1980	II 1980	III 1980	IV 1980	Dec. 1981 ^b	Nov. 1981 ^b	Oct. 1981	Sept. 1981	Dec. 1980	Nov. 1980	Oct. 1980	Sept. 1980									
INDUSTRY GROUPS AND INDUSTRIES--Continued																												
36	Durable goods industries--Continued	26,779	26,976	26,865	26,517	25,689	25,057	24,383	24,350	24,145	26,294	26,477	26,492	26,256	23,951	23,978	24,112	24,104	24,112	24,104	24,112	24,104	24,112	24,104				
361,2	Electrical machinery, equipment and instruments	4,792	4,806	4,744	4,488	4,263	4,163	4,222	4,263	4,713	4,746	4,678	4,152	4,101	4,165	4,162	4,165	4,162	4,165	4,162	4,165	4,165	4,162	4,165	4,162			
363	Household appliances	2,057	2,134	2,021	1,934	1,905	1,874	1,843	1,943	1,997	1,989	1,817	1,727	1,928	2,021	1,921	1,928	1,745	1,745	1,745	1,745	1,745	1,745	1,745	1,745			
365	Radio and TV	1,734	1,783	1,742	1,664	1,492	1,444	1,311	1,292	1,309	1,698	1,712	1,282	1,656	1,712	1,282	1,656	1,282	1,282	1,282	1,282	1,282	1,282	1,282	1,282			
366	Communication equipment	8,669	8,193	8,882	8,859	8,886	8,776	8,630	8,589	8,178	8,812	8,907	8,869	8,692	8,486	8,692	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667				
367	Electronic components	4,880	5,030	4,992	4,74	4,795	4,560	4,557	4,450	4,422	4,831	4,937	4,864	4,409	4,511	4,441	4,441	4,441	4,441	4,441	4,441	4,441	4,441	4,441	4,441			
37	Transportation equipment	40,015	40,250	40,264	39,424	38,628	38,111	36,810	35,442	34,429	39,295	40,417	40,213	39,378	36,104	35,165	35,149	35,143	35,143	35,143	35,143	35,143	35,143	35,143	35,143			
371	Motor vehicles and parts	9,001	9,056	9,453	9,316	9,275	9,605	9,594	9,409	9,865	8,719	9,331	9,521	9,476	9,388	9,388	9,388	9,388	9,388	9,388	9,388	9,388	9,388	9,388	9,388			
372,6	Aircraft, missiles, and parts	26,421	26,499	25,997	25,468	26,901	22,918	21,835	20,160	26,303	25,832	25,822	25,822	25,822	22,594	22,594	22,594	22,594	22,594	22,594	22,594	22,594	22,594	22,594	22,594	22,594		
373,1	Shipbuilding and military tank vehicles	2,573	2,742	2,596	2,636	2,612	2,265	2,105	2,130	2,130	2,385	2,705	2,145	2,671	2,823	2,823	2,823	2,823	2,823	2,823	2,823	2,823	2,823	2,823	2,823	2,823		
379,5	Instruments and related products	9,649	9,714	9,738	9,603	9,380	9,281	9,037	8,994	9,388	9,576	9,658	9,020	9,051	9,009	9,009	9,009	9,009	9,009	9,009	9,009	9,009	9,009	9,009	9,009			
38	Scientific and engineering products	6,946	6,963	6,900	6,912	6,842	6,593	6,474	6,309	6,263	6,862	6,865	6,849	6,824	6,849	6,391	6,350	6,312	6,252	6,252	6,252	6,252	6,252	6,252	6,252			
381-4	Photographic goods	2,222	2,316	2,320	2,342	2,247	2,259	2,243	2,172	2,115	2,058	2,235	2,287	2,287	2,287	2,287	2,287	2,287	2,287	2,287	2,287	2,287	2,287	2,287	2,287			
386	All other durable goods industries	14,527	14,723	14,804	14,880	14,508	14,213	14,046	14,175	13,923	14,419	14,537	14,699	14,744	13,808	13,808	13,808	13,808	13,808	13,808	13,808	13,808	13,808	13,808	13,808	13,808		
39	Nondurable goods industries	20,930	21,619	21,600	21,826	21,862	22,237	22,325	22,368	21,263	21,569	22,840	22,741	21,913	23,060	23,060	23,060	23,060	23,060	23,060	23,060	23,060	23,060	23,060	23,060	23,060		
20	Food and kindred products	1,978	2,085	2,130	2,067	2,267	2,272	2,211	2,138	2,005	1,952	2,019	2,132	2,019	2,239	2,239	2,239	2,239	2,239	2,239	2,239	2,239	2,239	2,239	2,239	2,239		
201	Meat products	3,769	3,824	3,817	3,863	3,863	3,743	3,909	3,866	3,895	3,777	3,839	3,897	3,874	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809		
207	Beverages	3,767	3,824	3,817	3,863	3,863	3,743	3,909	3,866	3,895	3,777	3,839	3,897	3,874	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809	3,809			
203-6,9	Fats and oils	1,587	1,741	1,692	1,648	1,648	1,792	1,792	2,025	2,388	1,840	1,787	1,722	1,648	1,253	1,253	1,253	1,253	1,253	1,253	1,253	1,253	1,253	1,253	1,253	1,253	1,253	
21	All other foods	11,867	12,267	12,370	12,481	12,456	12,476	12,480	12,480	11,885	12,389	13,067	13,067	13,359	13,359	13,359	13,359	13,359	13,359	13,359	13,359	13,359	13,359	13,359	13,359	13,359		
21	Tabacco products	4,245	4,036	4,043	4,043	3,966	3,750	3,689	3,507	3,628	4,145	4,145	4,087	3,906	4,455	4,455	4,455	4,455	4,455	4,455	4,455	4,455	4,455	4,455	4,455	4,455		
22	Textile mill products	6,730	6,709	6,676	6,642	6,642	6,604	6,58	6,386	6,102	6,250	6,459	6,459	6,495	6,395	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484	6,484		
26	Paper and allied products	8,801	8,822	8,664	8,588	8,588	8,332	8,286	7,988	7,818	7,866	8,706	8,706	8,706	8,706	8,706	8,706	8,706	8,706	8,706	8,706	8,706	8,706	8,706	8,706			
261-3	Pulp, paper, etc.	3,293	3,213	3,123	3,018	2,972	2,794	2,794	2,794	2,794	3,295	3,295	3,295	3,295	3,295	3,295	3,295	3,295	3,295	3,295	3,295	3,295	3,295	3,295	3,295			
265	Paperboard containers	2,369	2,403	2,335	2,337	2,337	2,188	1,973	1,971	2,094	2,331	2,337	2,336	2,331	2,331	2,331	2,331	2,331	2,331	2,331	2,331	2,331	2,331	2,331	2,331			
266	All other paper containers	3,125	3,128	3,116	3,128	3,059	3,126	3,052	2,953	3,080	3,077	3,071	3,071	3,071	3,071	3,071	3,071	3,071	3,071	3,071	3,071	3,071	3,071	3,071	3,071			
28	Chemicals and allied products	20,755	20,722	20,363	20,218	19,688	18,499	18,478	19,211	20,858	20,858	20,858	20,858	20,858	20,858	20,858	20,858	20,858	20,858	20,858	20,858	20,858	20,858	20,858	20,858			
281,6	Industrial chemicals, except pigments	6,824	6,886	6,810	6,961	6,693	6,284	6,200	6,714	6,947	6,891	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708	6,708			
283,4	Drugs, soap, and toiletries	6,017	5,994	5,998	5,867	5,839	5,819	5,612	5,596	5,587	5,963	5,964	5,791	5,791	5,791	5,791	5,791	5,791	5,791	5,791	5,791	5,791	5,791	5,791	5,791	5,791		
29	Petroleum and coal products	8,609	8,663	8,772	9,206	9,996	9,885	8,240	8,805	8,711	8,873	8,966	9,087	9,353	8,495	8,495	8,495	8,495	8,495	8,495	8,495	8,495	8,495	8,495	8,495	8,495	8,495	
30	Plastics products	5,560	5,801	5,729	5,703	5,634	5,538	5,239	5,239	5,603	5,603	5,592	5,592	5,592	5,592	5,592	5,592	5,592	5,592	5,592	5,592	5,592	5,592	5,592	5,592	5,592		
23	All other nondurable goods industries	15,923	15,864	15,516	15,182	14,817	14,656	14,353	14,243	14,241	15,176	14,916	15,021	15,181	14,700	13,700	13,700	13,700	13,700	13,700	13,700	13,700	13,700	13,700	13,700	13,700	13,700	13,700
31																												

Preliminary.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

2The supplementary series are regroupings of the separate industry categories as follows: Household appliances--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery (excluding farm machinery and equipment and machine shop), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports in defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-15, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-oriented Industries"), for the specified industries.

Table 5. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP

(Millions of dollars)

10

Industry	Seasonally adjusted												Not seasonally adjusted												
	Monthly			Quarterly			Last 4 months			Last 4 months a year ago			Monthly			Last 4 months			Last 4 months a year ago			Monthly			
	Dec., 1981 ^p	Nov., 1981 ^r	Oct., 1981	Sept., 1981	1981	1980	IV	1980	III	1980	II	1980	Dec., 1981 ^p	Nov., 1981 ^r	Oct., 1981	Sept., 1981	Dec., 1980	Nov., 1980	Oct., 1980	Sept., 1980					
TOTALS																									
All manufacturing industries.....	277,172	279,544	278,440	276,616	269,709	266,524	257,980	256,835	256,421	275,538	277,405	276,040	273,900	256,584	255,399	254,257	254,207								
Durable goods industries.....	187,275	186,718	185,140	178,676	176,229	171,603	170,163	169,769	183,712	185,149	184,310	183,091	169,616	168,354	167,617	168,308									
Stone, clay, and glass products.....	6,924	6,553	6,923	7,037	6,599	6,398	6,145	6,016	6,189	6,775	6,658	6,613	6,792	5,807	5,788	5,807	5,807	5,807							
Primary metals.....	25,184	25,361	25,268	23,334	22,640	21,976	20,022	22,555	25,632	25,301	24,971	24,709	22,390	21,663	21,699	21,663	21,663								
Fabricated metals.....	20,171	20,733	20,598	20,440	19,973	19,773	19,395	20,020	19,835	20,159	20,227	20,147	19,394	19,937	18,753	19,119	19,937								
Nonelectrical machinery.....	42,540	42,502	42,282	42,017	40,342	39,618	39,189	39,726	39,514	42,182	42,147	41,681	41,452	38,884	38,972	38,663	39,166								
Electrical machinery.....	26,779	26,976	26,865	26,517	25,689	25,057	24,383	24,350	24,145	26,294	26,477	26,942	23,951	23,978	24,112	24,104	24,112								
Transportation equipment.....	40,015	40,250	40,644	39,424	38,610	38,111	36,810	35,442	34,249	39,295	40,417	40,213	39,178	36,104	35,965	35,819	35,442								
Instruments and related products.....	9,649	9,771	9,738	9,603	9,380	9,281	9,037	8,994	9,388	9,037	9,571	9,658	9,576	9,009	9,009	9,009	9,009	9,009							
All other durable goods industries.....	14,729	14,804	14,880	14,408	14,213	14,175	13,923	14,419	14,311	14,419	14,419	14,419	13,854	13,744	13,808	14,010	13,808								
Nondurable goods industries.....	91,383	92,269	91,722	91,476	91,033	90,235	86,377	86,672	86,652	91,826	92,256	91,730	90,809	86,967	87,045	86,640	85,899								
Chemicals and allied products.....	20,585	20,755	20,272	19,926	19,218	19,448	18,489	18,478	19,211	20,838	20,622	20,301	19,956	18,748	18,482	18,035	18,114								
Petroleum and coal products.....	8,663	8,772	9,206	9,996	9,885	8,240	8,055	8,711	8,873	8,986	9,079	9,087	9,353	8,955	8,431	8,639	8,943								
Rubber and plastics products, n.e.c.....	5,560	5,703	5,634	5,239	5,052	5,232	5,279	5,603	5,603	5,590	5,565	5,565	5,592	5,050	5,125	5,131	5,131								
All other nondurable goods industries.....	56,629	57,050	56,499	55,185	55,385	54,369	54,158	53,127	56,492	57,058	56,777	55,908	54,405	55,082	54,841	53,711	53,711								
MATERIALS AND SUPPLIES																									
All manufacturing industries.....	94,115	94,762	94,364	94,187	92,127	91,907	89,380	88,701	89,963	94,099	94,114	93,540	93,540	89,860	88,312	88,445	88,032								
Durable goods industries.....	56,830	57,740	57,648	57,495	55,816	55,435	53,808	53,587	54,624	57,048	57,615	57,694	57,535	53,998	53,042	53,379	53,615								
Stone, clay, and glass products.....	2,638	2,684	2,698	2,619	2,691	2,552	2,446	2,278	2,342	2,672	2,648	2,668	2,716	2,477	2,289	2,289	2,277								
Primary metals.....	9,318	9,426	9,374	9,374	8,849	9,401	8,924	9,046	9,046	9,746	9,601	9,464	9,339	9,328	9,029	9,029	9,021								
Fabricated metals.....	7,375	7,720	7,604	7,727	7,420	7,249	7,081	7,249	7,249	7,351	7,525	7,525	7,631	7,730	6,968	6,968	7,110								
Nonelectrical machinery.....	11,362	11,298	11,480	11,482	11,212	10,843	10,993	11,176	11,252	11,325	11,507	11,490	11,332	11,022	10,990	11,066	11,021								
Electrical machinery.....	7,790	7,903	7,928	7,98	7,361	7,340	7,229	7,376	7,376	7,647	7,729	7,647	7,754	7,754	7,737	7,736	7,736								
Transportation equipment.....	10,056	9,807	9,899	9,931	9,762	9,524	8,836	8,274	8,874	8,874	8,798	10,071	10,073	10,029	8,597	7,707	7,707								
Instruments and related products.....	2,776	2,796	2,899	2,901	2,854	2,885	2,786	2,852	2,790	2,772	2,868	2,869	2,861	2,777	2,763	2,763	2,760								
All other durable goods industries.....	5,579	5,739	5,758	5,758	5,564	5,564	5,345	5,545	5,545	5,655	5,655	5,655	5,655	5,845	5,424	5,424	5,553								
Nondurable goods industries.....	37,025	37,755	37,022	36,716	36,692	36,311	36,412	35,114	35,339	35,785	36,484	36,420	36,005	35,962	35,210	35,066	34,417								
Chemicals and allied products.....	7,365	7,365	7,117	7,856	7,921	7,994	7,855	7,668	7,365	7,441	7,980	7,720	7,557	7,841	7,453	7,309	7,309								
Petroleum and coal products.....	2,223	2,246	2,214	2,214	2,381	2,345	2,347	2,373	2,250	2,085	2,336	2,336	2,336	2,336	2,336	2,336	2,336								
Rubber and plastics products, n.e.c.....	2,332	2,312	2,312	2,312	2,385	2,669	2,654	2,726	2,651	2,624	2,476	2,621	2,514	2,622	2,643	2,643	2,552								
All other nondurable goods industries.....	24,665	24,257	24,210	24,210	23,391	23,391	23,340	23,476	23,383	23,383	24,918	24,193	23,957	23,803	23,560	23,183	22,635								
WORK IN PROCESS																									
All manufacturing industries.....	99,240	99,637	98,651	96,736	95,366	92,042	90,648	89,360	97,940	99,360	99,360	98,812	98,812	98,185	90,789	90,104	90,235								
Durable goods industries.....	80,912	85,574	84,986	84,083	81,769	80,584	77,935	76,691	75,312	83,668	84,873	84,388	83,388	83,564	76,725	76,699	76,063								
Stone, clay, and glass products.....	1,035	1,008	1,044	929	933	851	857	862	906	927	935	935	935	935	935	781	786	820							
Primary metals.....	9,969	9,944	9,944	9,944	9,888	9,107	8,951	7,960	7,999	8,436	9,831	9,831	9,779	9,754	7,985	7,985	7,985								
Fabricated metals.....	7,964	8,229	8,049	7,911	7,886	7,781	7,781	7,797	7,602	7,742	7,682	7,682	7,888	7,888	7,829	7,829	7,829								
Nonelectrical machinery.....	18,611	18,764	18,537	17,844	17,844	17,556	17,741	17,791	17,791	18,472	18,472	18,472	18,483	18,483	17,507	17,507	17,507								
Electrical machinery.....	13,714	13,714	13,661	13,559	13,290	12,452	12,452	11,622	11,622	13,442	13,628	13,628	13,636	13,636	12,206	12,236	12,236								
Transportation equipment.....	25,921	26,337	25,064	25,499	25,022	24,600	23,902	23,156	23,156	26,567	26,232	26,232	25,447	25,447	23,541	23,432	23,432								
Instruments and related products.....	4,266	4,242	4,255	4,238	4,176	4,059	4,064	3,882	3,920	4,137	4,137	4,137	4,183	4,200	4,214	3,934	3,934								
All other durable goods industries.....	3,432	3,436	3,381	3,415	3,415	3,481	3,489	3,353	3,489	3,489	3,489	3,489	3,489	3,404	3,404	3,346	3,346								
Nondurable Goods Industries.....	14,384	14,288	14,222	14,607	14,607	14,782	14,107	13,957	13,957	13,848	14,272	14,272	14,424	14,424	14,064	13,917	13,917								
Chemicals and allied products.....	2,581	2,581	2,571	2,715	2,715	2,740	2,740	2,568	2,649	4,012	4,072	4,072	2,649	2,649	2,643	2,643	2,643								
Petroleum and coal products, n.e.c.....	2,632	2,341	2,341	2,385	2,006	1,006	1,006	1,006	1,006	2,651	2,626	2,626	2,621	2,621	2,622	2,622	2,622								
Rubber and plastics products, n.e.c.....	1,090	1,057	1,057	8,126	8,126	8,207	8,207	8,036	7,858	7,858	7,858	7,858	7,858	8,254	8,254	8,247	8,247								
All other nondurable goods industries.....	8,025	8,066	8,066	8,107	8,10																				

Table 6. PERCENT CHANGES AND REVISION FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent change							Revision ²		
	Month-to-month			Average monthly rate of change ¹				Year ago Dec. 1980	Average monthly Dec. 1980 through Nov. 1981	
	Nov. 1981- Dec. 1981	Oct. 1981- Nov. 1981	Sept. 1981- Oct. 1981	Fourth quarter 1981	Third quarter 1981	Second quarter 1981	Jan. 1981 through Dec. 1981			
Shipments:										
All manufacturing industries.....	-0.2	-1.3	-2.7	-1.4	-0.6	+1.1	-0.1	0.5	0.2	0.8
Durable goods industries.....	-0.4	-1.1	-4.2	-1.9	-1.0	+1.4	-0.2	0.8	0.4	1.0
Nondurable goods industries.....	0.0	-1.4	-1.1	-0.8	+0.1	+0.8	0.0	0.3	0.3	0.6
Inventories:										
All manufacturing industries.....	-0.8	+0.4	+0.7	+0.1	+0.8	+0.4	+0.6	0.3	1.5	0.3
New orders:										
All manufacturing industries.....	+0.2	+0.6	-5.6	-1.6	-0.5	+0.7	-0.3	0.2	0.3	0.9
Durable goods industries.....	+0.3	+2.8	-9.8	-2.4	-0.8	+0.6	-0.6	0.2	0.6	1.2
Nondurable goods industries.....	+0.2	-1.5	-1.2	-0.8	-0.2	+0.8	0.0	0.1	0.4	0.5
Unfilled orders:										
Durable goods industries.....	-0.4	-0.5	-1.5	-0.8	+0.3	+0.2	0.0	0.2	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Dec. 1981 ^P	Nov. 1981 ^F	Oct. 1981	Sept. 1981	Dec. 1981 ^P	Nov. 1981 ^F	Oct. 1981	Sept. 1981
All manufacturing industries.....	1.71	1.73	1.70	1.64	3.73	3.72	3.74	3.68
Durable goods industries.....	2.29	2.29	2.26	2.15	4.51	4.49	4.49	4.41
Stone, clay, and glass products.....	1.83	1.80	1.80	1.75	0.67	0.67	0.65	0.60
Primary metals.....	2.56	2.38	2.28	2.16	2.71	2.54	2.50	2.46
Fabricated metals.....	2.10	2.18	2.06	1.99	3.27	3.33	3.17	3.14
Machinery, except electrical.....	2.48	2.44	2.50	2.42	4.70	4.57	4.73	4.72
Electrical machinery.....	2.31	2.36	2.39	2.27	4.45	4.47	4.50	4.42
Transportation equipment.....	2.32	2.40	2.34	2.08	10.92	11.25	11.59	10.91
Instruments and related products.....	2.28	2.36	2.29	2.27	1.69	1.76	1.66	1.64
Nondurable goods industries.....	1.14	1.15	1.13	1.11	0.60	0.62	0.64	0.65
Food and kindred products.....	0.97	1.01	0.98	0.97	(X)	(X)	(X)	(X)
Tobacco products.....	3.56	3.44	3.68	3.27	(X)	(X)	(X)	(X)
Textile mill products.....	1.70	1.71	1.64	1.50	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.34	1.35	1.34	1.31	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.33	1.35	1.38	1.31	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.56	0.55	0.53	0.57	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.47	1.59	1.45	1.44	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^FRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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